DUALTRACK
PIPE & CABLE SURVEY SYSTEM

There are thousands of miles of cables beneath our oceans. Commercial, legal and operational considerations demand that these subsea cables remain in good order. This requirement creates a constant need to verify their location, condition and burial status – operations that are complicated by the ever-changing seabed topography.

There is a need for a system that can detect the presence of a cable and can provide accurate and reliable survey data, which describes the position of these cables on or beneath the seabed. The system needs to be flexible in its range of uses and in the variety of vehicles on which it can be installed to complete the survey work.

VT TSS has become the world leader in developing and supplying technologies to meet these demands. Having developed the world's first commercial pulse induction pipe and cable survey system (TSS 340) in 1991 and recently upgraded to the TSS 440; followed by the release of the TSS 350 AC tone cable survey system and the combined Dualtrack system, VT TSS has gone from strength to strength and become the industry standard.

VT TSS technologies have proven themselves in operation in some of the most exacting environments world-wide, and our equipment is established as the most accurate means of obtaining burial data.

Features:

- **Suitable for cable tracking, burial and survey requirements**
- **Excellent detection and tracking performance**
- **High accuracy repeatable range data**
- **Pulse induction technology allows autonomous operation**
- **Can be fitted to a wide range of subsea vehicles**
- **System design facilitates quick and easy mobilisation**
- **AC tone detection mode for measurement at increased burial depths**
- **Forward search mode for target location**

DUALTRACK

TECHNICAL SPECIFICATIONS		
System performance	*A C Tone*	
	Detection Range	Cable detected at vertical range up to 10m and within a total horizontal swath width of 20m centred on the coil array
	Vertical measurement accuracy	5cm or 5% of slant range – whichever is greater. Stated accuracy applies within the quality envelope of 4m.
	Pulse induction	
	Detection Range	3cm armoured cable depth and tracking at 1.2m; 1cm unarmoured cable depth and tracking at 0.6m
	Vertical measurement accuracy	5cm or 5% of slant range – whichever is greater
Subsea electronics pod (SEP) & Power supply pod (PSU)	Dimensions	140mm (diameter) x 450mm x 3 pods
	Weight per pod	10 Kg in air; 2 Kg in water
	SDC communication	2-wire 20mA digital current loop or 4-wire 20mA digital current loop, RS232 via a multiplexer
	Voltage input	Standard 110V ac (input range 98-135V ac); Optional 240V ac (input range 198-270V ac)
	ROV connection	Via 8-way waterproof connector
Surface display console (SDC)	Interface to	Communication to subsea pod, data logger, altimeter, printer, video in/out PAL (NTSC optional), analogue output (optional)
	Voltage input	100/240V ac (range 100-132V/180-264V ac auto-ranging)
	Input frequency	57-63Hz @100/132V; 47-53 Hz @ 180/264V
	Dimensions	265mm (h) x 480mm (w) x 320mm (d)
Altimeter	Dimensions	140mm (diameter) x 290mm
	Frequency	200 kHz
	Range	30cm to 30m
	Connection cable	4m length (7m length optional)
	Connection to	Subsea electronics pod
Depth rating	All subsea components are depth rated to 3000m	
Field support kit	Supplies as part of the recommended system	
Training	2 days training (on-site Witney, UK) are included in the cost of the system	
Warranty	15 months international warranty including parts and labour	
		Due to continuous development, specifications may vary from those listed above.

VT TSS

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